

REMARKS

Prior to entry of the instant amendment, claims 1-18 are currently pending in the subject application. By the instant amendment, claims 9 and 10 are amended to clarify the subject matter of the present invention. Claims 5, 11 and 12 are canceled, without prejudice. The subject matter of claims 11 and 12 being re-presented as new claims 21 and 22. Claims 15-18 are amended to modify the claim dependencies thereof. New claims 19 and 20 are added. No new matter is introduced by the instant amendment, as support for the instant amendment may be found in paragraphs [0033] and [0034] of the specification as originally filed. Claims 1, 14 and 19 are independent.

Applicants appreciate the Examiner's acknowledgement of applicants' claim for foreign priority and receipt of a certified copy of the priority document.

Applicants further appreciate the Examiner's acceptance of the drawings filed on October 15, 2003.

Applicants further appreciate the Examiner's consideration of the Information Disclosure Statement filed on March 17, 2004, and request consideration of the Information Disclosure Statement filed on December 24, 2004, in the next Office action.

The Examiner's indication of allowable subject matter in claims 7-12 and the allowance of claims 14-18 is gratefully acknowledged.

Claims 1-4, 6-10 and 13-22 are presented to the Examiner for further or initial prosecution on the merits.

A. Introduction

In the outstanding Office action, the Examiner rejected claims 1-6 and 13 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,160,514 to Judd ("the Judd

reference”), objected to claims 7-12 for depending from a rejected base claim, and allowed claims 14-18.

B. Asserted Anticipation Rejection of Claims 1-6 and 13

In the outstanding Office action, the Examiner rejected claims 1-6 and 13 under 35 U.S.C. § 102(e) as being anticipated by the Judd reference. This rejection is respectfully traversed for at least the following reasons.

In the outstanding Office action, with regard to claims 1-6, the Examiner asserted:

Judd discloses, in figure 2, an antenna system for indoor wireless communications comprising a first antenna 32 installed behind a first wall surface 29 of a wall 22, a second antenna 34 installed behind a second wall surface 28, a third antenna 36 installed behind a third wall surface 30, wherein the first wall surface 29 and third wall surface 30 form an angle at the protruding corner. Figure 6 shows the first antenna 32, the second antenna 34, and the third antenna 36 electrically connected to a RF unit 72.

Office action of Dec. 28, 2004, at p. 2.

In the outstanding Office action, with regard to claims 1 and 13, the Examiner further asserted:

Judd discloses, in figure 2, an antenna system for indoor wireless communications comprising a first antenna 32 installed behind a first wall surface 29 of a wall 22, a second antenna 36 installed behind a second wall surface 30, wherein the first wall surface 29 and second wall surface 30 form an angle at the protruding corner.

Id., at pp. 2-3.

It is respectfully submitted that the Judd reference fails to disclose or suggest such a structure as claimed in the subject application. Accordingly, the subject invention, as presently claimed, is patentably distinct from the disclosure of the cited prior art reference.

Specifically, the Judd reference fails to disclose or suggest “an access point (AP) antenna having a radio wave emitting surface, a part of the AP antenna being installed behind a wall surface of a wall in a building construction,” as presently recited in claim 1.

In the outstanding Office action, the Examiner indicates the Judd reference discloses “a first antenna 32 installed behind a first wall surface 29 of a wall 22.” *Office action of Dec. 28, 2004, at p. 2.* The Judd reference, however, discloses “a ‘book’ antenna system” including:

two rectangular (shown square in FIG. 1) sections 22, 24 joined along a common edge. The two sections, 22, 24 are joined at a 90 degree angle, thus allowing the antenna 20 to fit squarely into a corner, between two walls, in a room (see FIG. 3), so as to resemble an open “book” in appearance.

The Judd reference at col. 2, lines 46-52.

As may be seen from the above description, the Judd reference discloses an antenna system 20 that may be placed up against a wall, e.g., in a corner of a room between two walls 42 and 44, as shown in FIG. 3. In the Judd reference, element 22 is a section of the antenna system and is not a wall in a building construction. No portion of the antenna system of the Judd reference is installed behind a wall surface of a wall in a building construction. In fact, just the opposite is the case in the Judd reference. Specifically, the sections 22 of the antenna system 20 are placed in front of a wall surface of wall in a building construction. This arrangement is more similar to the prior art antenna system illustrated in FIG. 1 of the subject application. Because the antenna system of the Judd reference is positioned up against a wall, i.e., outside of the wall, the antenna system is not able to effective communication with an access point in another room, i.e., on the other side of wall.

On the contrary, a feature of the present invention is to facilitate wireless communication in multiple rooms. To provide this feature, the antenna system of the present invention includes

an access point antenna, which is installed behind a wall surface of a wall in a building structure, i.e., within the wall, as described in paragraph [0031] and as shown, e.g., in FIG. 2, of the original specification. *Serial No. 10/684,577, at ¶ [0031]*. As a result of this configuration, the antenna system of the present invention is able to more effectively communicate with access points in multiple rooms sharing a common wall in which the antenna system is installed. The Judd reference is not able to provide this feature of the present invention because the Judd reference fails to disclose or suggest an access point antenna “installed behind a wall surface in a building construction,” as recited in claim 1.

In view of the above distinction between the subject invention as presently claimed and the cited prior art reference, claim 1 is believed to be in condition for allowance, and a notice to such effect is respectfully requested.

By the instant amendment, claim 5 is canceled, without prejudice, and the rejection thereof is rendered moot. Because the remaining claims, claims 2-4, 6 and 13, depend, directly or indirectly from claim 1, claims 2-4, 6 and 13 are believed to be similarly allowable as depending from an allowable base claim.

Accordingly, reconsideration and withdrawal of the rejections of claims 1-4, 6 and 13 are respectfully requested.

C. Allowable Subject Matter

In the outstanding Office action, the Examiner objected to claims 7-12 for depending from a rejected base claim, but indicated that claims 7-12 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

By the instant amendment, claims 11 and 12 are canceled, without prejudice, and the rejections thereof are rendered moot. Claims 7-10 depend, directly or indirectly, from claim 1,

which is believed to be in condition for allowance. Accordingly, claims 7-10 are believed to be similarly allowable as depending from an allowable base claim. Thus, as claims 7-10 are believed to be allowable, a notice to such effect is respectfully requested.

Reconsideration and withdrawal of the objections to claims 7-10 are respectfully requested.

D. Allowed Claims 14-18

In the outstanding Office action, the Examiner allowed claims 14-18. The allowance of these claims is gratefully acknowledged.

E. New Claims 19-22

By the instant amendment, new claims 19-22 are added. New claims 19 and 20 recite subject matter disclosed in paragraphs [0033] and [0034] of the specification as originally filed. New claims 21 and 22 recite the subject matter of original claims 11 and 12, respectively, which are canceled, without prejudice, by the instant amendment.

New claims 19-22 are believed to be allowable, and a notice to such effect is respectfully requested.

F. Conclusion

Since the cited prior art reference neither anticipates nor renders obvious the subject invention as presently claimed, applicants respectfully submit that claims 1-4, 6-10 and 13-22 are now in condition for allowance and notice to that effect is respectfully requested.

The remaining documents cited by the Examiner were not relied on to reject the claims. Therefore, no comments concerning these documents are considered necessary at this time.

If the Examiner believes that additional discussions or information might advance the prosecution of the instant application, the Examiner is invited to contact the undersigned at the telephone number listed below to expedite resolution of any outstanding issues.

In view of the foregoing amendments and remarks, reconsideration of this application is earnestly solicited, and an early and favorable further action upon all the claims is hereby requested.

Respectfully submitted,

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A handwritten signature in black ink, appearing to read "Eugene M. Lee".

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PETITION and
DEPOSIT ACCOUNT CHARGE AUTHORIZATION

This document and any concurrently filed papers are believed to be timely. Should any extension of the term be required, applicant hereby petitions the Director for such extension and requests that any applicable petition fee be charged to Deposit Account No. 50-1645.

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

Any additional fee(s) necessary to effect the proper and timely filing of the accompanying-papers may also be charged to Deposit Account No. 50-1645.

FIG. 1 (PRIOR ART)

